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GREEN 'TUNE-UP' These are the Top 10 ways to save money with the fastest payback time and the best Return On Investment.	Payback Time in Years:	Added Cost:	Annual SAVINGS	10 Year SAVINGS	Return On Invest. (ROI):
Programmable Thermostat. Why pay for heat and AC when you're not using it? One of the best ways to save money quickly and effortlessly is to install an ENERGY STAR® qualified thermostat that pays for itself in less than the first year.	0.6	$115	$180	$1,800	156.50%
Standby Power Reduction - Why pay for power when you're not using your home electronics? Use power strips to cut off the energy, since many appliances consume 25% of their power when they are not even turned on.	0.8	$20	$24	$240	120%
Compact Fluorescent Lighting - Why pay for conventional lighting that uses more power to create heat than light? Use 66% less energy with CFLs and they last 10 times longer than incandescent bulbs.	0.8	$60	$80	$800	133.30%
Hot Water Heater 'Blanket' - Why let your water heater work harder than necessary to keep your water hot? Insulation blankets can save you 10% or more depending on the quality of your tank.	0.8	$25	$30	$300	120%
Shower Heads - Why waste water when new technology regulates pressure and saves you money? High-Efficiency shower heads maintain shower comfort and save about 50% of the water required by conventional showers.	0.9	$180	$300	$3,000	111.10%
Heating System Tune-up - Why let your furnace work harder than necessary to keep your family warm all winter. A professional tune-up pays for itself and prevents costly future expenses.	1.1	$200	$180	$1,800	90%
Seal Duct Leaks - Why waste money with anything that leaks? Professional duct sealing saves you money on heating and cooling costs across the year.	1.5	$450	$300	$3,000	66.70%
Dishwasher - Why not replace your old dishwasher. ENERGY STAR® qualified units use 25% less energy and save about 800 gallons of water per year.	1.5	$20	$13	$130	65%
Water Filters - Why pay so much for bottled water over the course of each year? Home water filters give you great taste and healthier water for pennies a gallon.	1.9	$200	$104	$1,040	52%
Water Efficient Toilets - Why waste water when new technology regulates suction and saves you money? High-Efficiency toilets maintain functionality and save your family between 8,000 and 20,000 gallons of water per year, per toilet.	2	$50	$25	$250	50%

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GREEN 'Remodel' Improve key parts of your home, turn up the savings, and use cost-effective eco-friendly and healthy products.	Payback Time in Years:	Added Cost:	Annual SAVINGS	10 Year SAVINGS	Return On Invest. (ROI):
Solar Path and Garden Lights - Why pay for power when new technology provides strong light and savings? Let the sun conveniently power lights that automatically turn on at night to enhance your home and add security.	2.1	$375	$176	$1,760	46.90%
Windows - Why not replace your old windows or add 'smart windows' to a new addition. ENERGY STAR® qualified 'Low-E' windows help reduce your energy bill up to 15%, so they save money for as long as you own your home.	2.3	$700	$300	$3,000	42.90%
Skylights - Why keep the sun out when new technology reduces summer heat gain. Skylights replace your old windows or add 'smart windows' to an addition. ENERGY STAR® qualified 'Low-E' windows help reduce your energy bill up to 15%, so they save money for as long as you own your home, and they add to the resale value.	2.3	$70	$30	$300	42.90%
Insulated Walls - Why spend more than you need to keep your home comfortable? Properly insulate your house since 50% of the energy that a single family house consumes goes toward heating and cooling.	2.5	$750	$300	$3,000	40%
Insulated Basement Walls - Why spend more than you need to keep your home comfortable? Properly insulate your house since 50% of the energy that a single family house consumes goes toward heating and cooling.	2.5	$750	$300	$3,000	40%
Insulated Ducts - Why spend more than you need to keep your home comfortable? Properly insulate your house since 50% of the energy that a single family house consumes goes toward heating and cooling. Learn More	2.5	$450	$180	$1,800	40%
Solar Attic Fan - Why not let the sun help cool your attic and extend the life of your roof? Attic fans conveniently fit between rafters and save you money every year.	2.5	$500	$200	$2,000	40%
Replacement Light Fixtures - Why waste power with inefficient fixtures? Many new light fixtures are designated exclusively for compact fluorescents that save you money.	2.7	$108	$40	$400	37%
Toxic Free Paints - Why spend so much time painting a room just to add more chemicals that create health risks? Toxic free 'Zero VOC' paint only costs a few extra dollars a gallon and the savings come in protecting your family's health.	2.8	$70	$25	$250	35.70%
Faucets - Why waste water when new technology regulates pressure and saves you money? High-Efficiency faucets save about 50% of the water required by conventional showers.	3	$300	$100	$1,000	33.30%
Water Heater Replacement - Why let your old water heater continue to drain your wallet? New technology tanks have high insulation and recovery values to save you money.	3.1	$150	$48	$480	32.00%
Sealed Air Leaks - Why let the drafts that you can feel or the ones that you can't feel increase the cost of keeping your home comfortable? A Professional can typically reduce air leakage by 25% and you will recoup the service costs in just a few years, and then save money every year there after.	3.1	$554	$180	$1,800	32.00%

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GREEN 'Remodel' (Continued) Improve key parts of your home, turn up the savings, and use cost-effective eco-friendly and healthy products.	Payback Time in Years:	Added Cost:	Annual SAVINGS	10 Year SAVINGS	Return On Invest. (ROI):
Whole House Water Filters - Why spend extra money on bottled water and water 'softeners' when you can get a system for your whole house? Filtered water at every faucet and in every shower reduces chlorine and chlorine-resistant parasites at the point of entry saves your health and money.	3.2	$1,000	$312	$3,120	31.20%
Whole House Fans – Why make your AC do all the work when you can draw cooler evening air into your house as a primer for your AC. New technology fans use less electricity, have more power, and run more quietly than ever before.	3.6	$450	$125	$1,250	27.80%
Air Quality Whole House - Why risk the health of your family with indoor air quality that is worse than outdoors. Electrostatic air cleaners reduce the risk of chemicals used in home construction, and they eliminate mold and pollen.	3.6	$450	$125	$1,250	27.80%
On Demand Water Heater - Why waste money heating up water when you aren't using it? 'Flash' or 'Tankless' heaters can reduce your bill by 50%, plus you get endless hot water that doesn't run out like the conventional tank system.	3.8	$450	$120	$1,200	26.70%
Furnace Replacement - Why risk working your old furnace into the ground when the new high efficient furnaces save you money every month of the winter? The right furnace will make a big difference since 50% of the energy that a single family house consumes goes toward heating and cooling.	3.8	$1,145	$300	$3,000	26.20%
Trees - Why not let nature reduce more and more of your utility bills each year? Evergreens on the north side help diffuse winter wind and deciduous trees on the south help shade the house in the summer and let sunshine in all winter.	4	$1,200	$300	$3,000	25.00%
Clothes Washer - Why waste water and electricity if your clothes won't know the difference? ENERGY STAR® qualified models use 50% less energy than standard washers and saves about 8,600 gallons of water per year for the average household.	4.3	$300	$72	$720	24.00%
Recycled Mulch – Why mulch each year or so when the latest recycled tire mulch looks great and lasts for decades? You pay more up front, but you save on the cost of materials and 'installation' time each year.	4.5	$172	$38	$380	22.10%
Ceiling Fans - Why not help out the AC with a cool breeze, and help out the Heater by drawing warm air down from the ceiling? Multi-speed and reversible motor ceiling fans can save you 25-40% on your electrical bills in summer and up to 10% on heating bills in the winter.	5	$300	$60	$600	20.00%
Insulate Attics and Ceilings - Why spend more than you need to keep your home comfortable? Properly insulate your house since 50% of the energy that a single family house consumes goes toward heating and cooling.	5	$600	$120	$1,200	20.00%

GREEN 'Remodel' (Continued) Improve key parts of your home, turn up the savings, and use cost-effective eco-friendly and healthy products.	Payback Time in Years:	Added Cost:	Annual SAVINGS	10 Year SAVINGS	Return On Invest. (ROI):
Refrigerator - Why not replace your old refrigerator. ENERGY STAR® qualified models use at least 10% less energy than required by current federal standards, and 40% less energy than the conventional models. Learn More	5	$30	$6	$60	20.00%
Light Sharing - Why not let natural light through certain doorways to enhance interior rooms and save money? Transoms and translucent glass doors add interest and reduce your need to power light fixtures.	5	$50	$10	$100	20.00%
Heat Pumps / AC – Why not let the latest advances in technology help heat your house? 'Dual fuel' systems help you save money by giving you the power to choose between the cost of electricity and gas, depending on how cold it gets over the winter.	5	$1,000	$200	$2,000	20.00%
Greywater - Small Scale- Why let all of the water just go down the drains and out of your house? A typical American house uses over a quarter million gallons of water each year. Now, waste water from sinks and showers can be treated and recycled for irrigation and toilets.	5	$300	$60	$600	20.00%
Bamboo Floors - Why take the hardwood 'slow boat' when bamboo grows 100 time faster than conventional wood flooring? Bamboo offers durability, great style, and simply costs less than typical wood. Now you can price it competitively against carpet.	5	$525	$105	$1,050	20.00%
Cork Floors - Why not get durability, comfort, and easy installation? New pre-coated 'floating' systems, look great and have tap-in systems that can save you money on the installation that makes cork competitive with carpet - and it lasts much longer.	5	$525	$105	$1,050	20.00%
Window Treatments – Why just close the blinds when you can get high performance curtains? New 'thermal ' insulated curtains, toxic free fabric, and sun screens, can each save money on your energy bill and save your family's health.	5	$300	$60	$600	20.00%
Carpeting – Why let the kids roll around in chemicals? Many of the eco-friendly carpets are not only made from recycled materials, but they have less of the toxic chemicals which helps the overall environment as well as your indoor environment.	5.6	$280	$50	$500	17.90%
Rain Water Collection - Why not let nature water the garden rather than the water processing plant? Save water, reduce storm water overflow, and water your garden for free with chlorine free nutrients that your planting will love.	6	$120	$20	$200	16.70%
Composting - Why throw it all away? You can make incredibly rich potting soil for a fraction of what it costs at the garden center.	6.5	$325	$50	$500	15.40%

GREEN 'Remodel' (Continued) Improve key parts of your home, turn up the savings, and use cost-effective eco-friendly and healthy products.	**Payback Time in Years:**	**Added Cost:**	**Annual SAVINGS**	**10 Year SAVINGS**	**Return On Invest. (ROI):**
Decking - Why repair, weather treat, or replace wood decks when 'composite' materials out perform. Decks made from recycled material and saw dust last five times as long as wood, a and they look great without the maintenance or splinters.	6.5	$899	$138	$1,380	15.40%
Thru Wall Room to Room Fans – Why let one room stay too hot or cold when you can easily level the climate control between two rooms? New high efficiency fans are only 8" in diameter and they fit neatly in any interior wall with either an outlet plug in hard wire.	6.6	$66	$10	$100	15.20%
Air Quality By Room - Why risk the health of your family with indoor air quality that is worse than outdoors. Electrostatic air cleaners reduce the risk of chemicals used in home construction, and they eliminate mold and pollen.	6.6	$250	$38	$380	15.20%
Sun Tubes - Why flip a switch to light an interior bathroom or closet, when the sun can shine down and into the space. Sun tubes are great when a skylight will not work due to an attic or obstructions, and the light fills the room, naturally.	6.7	$300	$45	$450	15.00%
The DATA Source: The ROI calculations in this file and online are based on multiple years of comprehensive research and a combination of reports from the U.S. Department of Energy, the EPA, ENERGY STAR® for Homes Program, US Green Building Council's LEED for Homes Program, American Council for an Energy-Efficient Economy (ACEEE), International Energy Conservation Code, PLUS information directly from Foundation and University Studies, Architects, Manufacturer Specifications, Distributors, seasoned Builders and Installers, and Homeowners with actual Performance Feedback. The data is based on a single family house with typical utility demand for a family of four. The overall content in this file and online is intended to serve as a guide to help homeowners see the hierarchy of performance and payback. Given variations in energy consumption, house size, and climate zone, results will naturally vary. This aggregated information and ROI model is (C) GREENandSAVE.com					

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GREEN 'TRANSFORMATION' Convert your home into a High-Performance Residence: Save money, generate power, reduce utility dependence, and use eco/healthy systems.	Payback Time in Years:	Added Cost:	Annual SAVINGS	10 Year SAVINGS	Return On Invest. (ROI):
Dual Flush Toilets - Why assume that all flushes are created equal? Dual-Flush technology lets you choose between a 'light' and 'heavy' flush for maximum efficiency and saving between 8,000 and 20,000 gallons of water per year, per toilet.	6.7	$150	$23	$450	15.00%
Smart Roofs - Why assume that asphalt roofs are the best way to go, just because so many homes have them? Smart shingled roofing saves over 20% on summer energy costs, last about 3 times longer, and can reduce your homeowners insurance.	6.7	$2,000	$300	$6,000	15.00%
Insulated Double Walls - Why assume that one wall is enough? Boost insulation on new walls from R-19 to R-30 by creating an insulation sandwich that increase savings on utilities, sound protection, and looks great with extra deep sills.	7.5	$900	$120	$2,400	13.30%
Radiant Floors - Why assume that hot air blowing around your house is the best way to go. Radiant floors with water or electric systems increase comfort and decrease heating costs by up to 40%.	7.3	$4,000	$550	$11,000	13.80%
Thermal Mass - Floors - Why assume that a thin 3/4" plywood board underneath your finished floor is the best way to go. An 1 1/4" Gyp Crete below a tile floor holds the heat and cool air when you want it to save on energy bills and create an overall more solid house.	7.5	$3,000	$400	$8,000	13.30%
Southern Overhangs – Why not check your latitude to see the significant difference in the angle of the sun in the summer vs. the winter. Proper overhang shading can reduce undesirable heat gain in summer and increase the desirable heat gain in winter for energy savings and comfort.	8	$1,440	$180	$3,000	12.50%
Solar – Hot Water – Why assume that the investment payback is too long? Let the sun work to heat the water in your home with an efficient and maintenance free system that runs form your roof into your existing hot water tank.	8.9	$2,500	$280	$5,600	11.20%
Geo-Thermal - Why not dig deep? Since the ground temperature is a constant, a 'ground-source heat pump system' uses underground water from a 1,000-foot deep well heat and cool your house for savings.	10	$30,000	$3,000	$60,000	10.00%
Cross Ventilation – Why not position new windows or check the direction of the breezes on your property to maximize air flow in spring and fall. Natural ventilation can make a healthier home by flushing out the poor indoor air quality and save you money on cooling.	10	$1,200	$120	$2,400	10.00%
Southern Orientation – Why not check your site plan to see if there is a better way to orient an addition to get southern exposure? Natural light in conjunction with the right overhangs makes your home more enjoyable and saves money.	10	$1,200	$120	$2,400	10.00%

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Green Roofs - Why assume that asphalt roofs are the best way to go, just because so many homes have them? Green roofs with natural planting add insulation value that saves over 20% on summer energy costs, add visual appeal, and may last well beyond your lifetime.	10	$8,000	$800	$16,000	10.00%
Water Conservation/Retention Large Scale - Why let all of the water just go down the drains and out of your house? A typical American house uses over a quarter million gallons of water each year. Now, waste water from sinks and showers can be treated and recycled for irrigation and toilets.	10.2	$2,200	$216	$4,320	9.80%
Solar – Electric – Why assume that the investment payback is too long? Let the sun work to power your house and you spend the time to choose the right grants to make the numbers work.	10.8	$13,000	$1,200	$60,000	9.20%
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